

GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: January 10, 2003, 02:42:20 ; Search time 73.5 seconds  
(without alignments)  
765.058 Million cell updates/sec

Title: US-09-674-035A-2  
Perfect score: 2253  
Sequence: 1 MYRPDVVRARKVCWEPWV.....PGVTVTRVLRDWTISKTGI 422

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : A\_Geneseq\_101002.\*  
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23: /SIDS2/cgcgdata/geneseq/geneseq-emb1/AA2002.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2255	99.6	422	21 AAY94708	Human DESC1 protei
2	2255	98.6	422	23 AAE18723	Human DESC1-like s
3	2255	99.6	423	21 AAY99414	Human PRO1461 (UNQ
4	2255	99.6	423	22 AAU29183	Human PRO polypept
5	2255	99.6	423	22 AAU01344	Human TANGO 361 am
6	2255	99.6	423	22 AAB87578	Human PRO1461. Ho
7	2255	99.6	423	22 AAB66163	Protein of the inv
8	2252	98.5	423	22 AAU01400	Human TANGO 361, v
9	2252	99.5	423	22 AAU01401	Human TANGO 361, v
10	2252	99.5	423	22 AAU01402	Human TANGO 361, v

11	2251	99.5	423	22 AAU01399	Human TANGO 361, v
12	2235	98.8	422	21 AAY94709	Human DESC1 protei
13	2232	98.6	422	22 AAE01946	Human endotheliase
14	2169	95.8	407	23 AAO21900	Homologous human p
15	1263	55.8	233	22 AAE01942	Human endotheliase
16	943	41.7	405	23 AAO21899	Protein of human p
17	903	39.9	418	23 ABB06972	Guinea pig AST pro
18	896	39.6	418	23 ABB06972	Canine AST protein
19	883	39.0	425	23 AAU82734	Amino acid sequenc
20	878	38.8	413	22 AAB85039	Human SER5 protein
21	877.5	38.8	417	23 ABB06973	Hamster AST protei
22	873	38.6	418	23 ABB06971	Rabbit AST protei
23	868.5	38.4	447	23 AAU82751	Amino acid sequenc
24	863	38.1	418	23 ABB06967	Porcine AST protei
25	855.5	37.8	417	23 ABB06970	Bovine AST protei
26	850	37.6	418	23 ABB06968	Macaca fasciculari
27	847	37.4	418	17 AAR89435	Trypsin-like enzym
28	847	37.4	418	20 AAY29501	Human lung tumour
29	847	37.4	418	20 AAY29502	Human lung tumour
30	847	37.4	418	21 AAB44437	Human lung tumour-
31	847	37.4	418	21 AAB44438	Human lung tumour-
32	847	37.4	418	22 AAE13778	Human lung tumour-
33	847	37.4	418	22 AAE13779	Human lung tumour-
34	847	37.4	418	22 ABB06964	Human airway tryps
35	847	37.4	418	23 ABB06964	Human airway speci
36	847	37.4	418	23 ABB77355	Human AST SEQ ID N
37	847	37.4	418	23 AAU76372	Human airway tryps
38	846	37.4	418	20 AAY29498	Human lung tumour
39	846	37.4	418	21 AAB44428	Human lung tumour-
40	846	37.4	418	22 AAE13769	Human lung tumour-
41	835.5	36.9	417	23 ABB06965	Mouse airway speci
42	835.5	36.9	417	23 ABB77356	Mouse AST SEQ ID N
43	835	36.9	449	22 ABB27792	Novel human diagno
44	816	36.1	416	22 AAG79214	Amino acid sequenc
45	816	36.1	416	22 AAB47566	Protease PRYS-8.

## ALIGNMENTS

RESULT 1  
AAY94708  
ID AAY94708 standard; Protein; 422 AA.

XX AC AAY94708;

XX DT 01-DEC-2000 (first entry)

XX DE Human DESC1 protein variant #1.

XX KW Human; DESC1; squamous cell carcinoma; prostate cancer; head; neck; diagnosis; chromosome 4ql2-4ql3.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers

FT Region 19..37

FT Cleavage-site /note= "Hydrophobic transmembrane region"

FT Domain 190..191

FT /note= "Catalytic domain"

XX PN WO200050061-A1.

XX PD 31-AUG-2000.

XX PF 11-NOV-1999; 99WO-TB01818.

XX PR 26-FEB-1999; 99US-0122747.

XX PA (OHIS ) UNIV OHIO STATE RES FOUND.

XX PI Lang JC;



Db	301	SYEFQGDYMFYTGEGALKNDGYSQHLRQAQVTLIDATTCNEPOAYNDATPRMLCAGS	360	PR	23-SEP-1998;	98US-0101472.
				PR	23-SEP-1998;	98US-0101474.
Qy	361	LEGKTDACOGDSGGPLVSSDARDIWLACIVSWGDECAKPNKPGVYTRYVALRDWITSKT	420	PR	23-SEP-1998;	98US-0101475.
				PR	23-SEP-1998;	98US-0101476.
Db	361	LEGKTDACOGDSGGPLVSSDARDIWLACIVSWGDECAKPNKPGVYTRYVALRDWITSKT	420	PR	23-SEP-1998;	98US-0101477.
				PR	23-SEP-1998;	98US-0101479.
Qy	421	GI 422		PR	24-SEP-1998;	98US-0101738.
				PR	24-SEP-1998;	98US-0101741.
Db	421	GI 422		PR	24-SEP-1998;	98US-0101743.
				PR	24-SEP-1998;	98US-0101915.
				PR	24-SEP-1998;	98US-0101916.
RESULT 3				PR	29-SEP-1998;	98US-0102207.
AA999414				PR	29-SEP-1998;	98US-0102240.
ID	AA999414	standard; Protein; 423 AA.		PR	29-SEP-1998;	98US-0102307.
XX	AC			PR	29-SEP-1998;	98US-0102330.
AC	AA999414;			PR	29-SEP-1998;	98US-0102331.
XX				PR	30-SEP-1998;	98US-0102484.
DT				PR	30-SEP-1998;	98US-0102487.
XX	08-AUG-2000	(first entry)		PR	30-SEP-1998;	98US-0102570.
DE		Human PRO1461 (UNQ742) amino acid sequence SEQ ID NO:269.		PR	30-SEP-1998;	98US-0102571.
XX				PR	01-OCT-1998;	98US-0102684.
KW		Human; PRO polypeptide; membrane bound protein; receptor; diagnosis;		PR	01-OCT-1998;	98US-0102687.
KW		transmembrane; Secretion; immunoadhesion; pharmaceutical; screening.		PR	02-OCT-1998;	98US-0102965.
XX				PR	06-OCT-1998;	98US-0103258.
OS		Homo sapiens.		PR	06-OCT-1998;	98US-0103449.
PN				PR	07-OCT-1998;	98US-0103314.
XX	WO200012708-A2.			PR	07-OCT-1998;	98US-0103315.
PD				PR	07-OCT-1998;	98US-0103328.
XX	09-MAR-2000.			PR	07-OCT-1998;	98US-0103395.
PF				PR	07-OCT-1998;	98US-0103396.
XX	01-SEP-1999;	99WO-US20111.		PR	07-OCT-1998;	98US-0103401.
XX				PR	08-OCT-1998;	98US-0103633.
01-SEP-1998;		98US-0098716.		PR	08-OCT-1998;	98US-0103678.
PR		98US-0098749.		PR	08-OCT-1998;	98US-0103679.
PR	01-SEP-1998;	98US-0098750.		PR	08-OCT-1998;	98US-0103679.
PR	02-SEP-1998;	98US-0098803.		PR	20-OCT-1998;	98US-0104257.
PR	02-SEP-1998;	98US-0098821.		PR	20-OCT-1998;	98US-0104987.
PR	02-SEP-1998;	98US-0098843.		PR	20-OCT-1998;	98US-0105000.
PR	09-SEP-1998;	98US-0099536.		PR	20-OCT-1998;	98US-0105002.
PR	09-SEP-1998;	98US-0099596.		PR	21-OCT-1998;	98US-0105104.
PR	09-SEP-1998;	98US-0099598.		PR	22-OCT-1998;	98US-0105169.
PR	09-SEP-1998;	98US-0099602.		PR	22-OCT-1998;	98US-0105169.
PR	09-SEP-1998;	98US-0099642.		PR	22-OCT-1998;	98US-0105266.
PR	10-SEP-1998;	98US-0099741.		PR	26-OCT-1998;	98US-0105693.
PR	10-SEP-1998;	98US-0099754.		PR	26-OCT-1998;	98US-0105694.
PR	10-SEP-1998;	98US-0099763.		PR	27-OCT-1998;	98US-0105807.
PR	10-SEP-1998;	98US-0099792.		PR	27-OCT-1998;	98US-0105881.
PR	10-SEP-1998;	98US-0099808.		PR	27-OCT-1998;	98US-0105882.
PR	10-SEP-1998;	98US-0099812.		PR	27-OCT-1998;	98US-0106062.
PR	10-SEP-1998;	98US-0099815.		PR	28-OCT-1998;	98US-0106023.
PR	10-SEP-1998;	98US-0099816.		PR	28-OCT-1998;	98US-0106029.
PR	15-SEP-1998;	98US-0100385.		PR	28-OCT-1998;	98US-0106030.
PR	15-SEP-1998;	98US-0100388.		PR	28-OCT-1998;	98US-0106032.
PR	15-SEP-1998;	98US-0100390.		PR	28-OCT-1998;	98US-0106033.
PR	16-SEP-1998;	98US-0100584.		PR	28-OCT-1998;	98US-0106178.
PR	16-SEP-1998;	98US-0100627.		PR	29-OCT-1998;	98US-0106248.
PR	16-SEP-1998;	98US-0100661.		PR	29-OCT-1998;	98US-0106384.
PR	16-SEP-1998;	98US-0100662.		PR	30-OCT-1998;	98US-0108500.
PR	16-SEP-1998;	98US-0100664.		PR	30-OCT-1998;	98US-0108500.
PR	17-SEP-1998;	98US-0100683.		PR	03-NOV-1998;	98US-0106856.
PR	17-SEP-1998;	98US-0100684.		PR	03-NOV-1998;	98US-0106902.
PR	17-SEP-1998;	98US-0100710.		PR	03-NOV-1998;	98US-0106905.
PR	17-SEP-1998;	98US-0100711.		PR	03-NOV-1998;	98US-0106919.
PR	17-SEP-1998;	98US-0100919.		PR	03-NOV-1998;	98US-0106932.
PR	17-SEP-1998;	98US-0100930.		PR	03-NOV-1998;	98US-0106934.
PR	18-SEP-1998;	98US-0100848.		PR	10-NOV-1998;	98US-0107783.
PR	18-SEP-1998;	98US-0100849.		PR	17-NOV-1998;	98US-0108775.
PR	18-SEP-1998;	98US-0101014.		PR	17-NOV-1998;	98US-0108779.
PR	18-SEP-1998;	98US-0101068.		PR	17-NOV-1998;	98US-0108787.
PR	18-SEP-1998;	98US-0101071.		PR	17-NOV-1998;	98US-0108788.
PR	22-SEP-1998;	98US-0101279.		PR	17-NOV-1998;	98US-0108801.
PR	23-SEP-1998;	98US-0101471.		PR	17-NOV-1998;	98US-0108802.
				PR	17-NOV-1998;	98US-0108806.
				PR	17-NOV-1998;	98US-0108807.

PR	17-NOV-1998;	98US-0108867.	AAU29183	AAU29183 standard; Protein; 423 AA.
PR	17-NOV-1998;	98US-0108925.	XX	
PR	18-NOV-1998;	98US-0108848.	AC	AAU29183;
PR	18-NOV-1998;	98US-0108849.	XX	
PR	18-NOV-1998;	98US-0108850.	DT	18-DEC-2001 (first entry)
PR	18-NOV-1998;	98US-0108851.	XX	
PR	18-NOV-1998;	98US-0108852.	DE	Human PRO polypeptide sequence #160.
PR	18-NOV-1998;	98US-0108858.	XX	
PR	18-NOV-1998;	98US-0108904.	XX	
XX			KW	PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
PA	(GETH ) GENENTECH INC.		KW	dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
PI	Baker K, Goddard A, Gurney AL, Smith V, Watanabe CK, Wood WI;		KW	blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
PI			KW	adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
XX			XX	
XX			OS	Homo sapiens.
DR	WPI; 2000-237871/20.		XX	
DR	N-PSDB; AAA37096.		PN	WO200168848-A2.
XX			XX	
XX	New mammalian DNA sequences encoding transmembrane, receptor or		XX	
PT	secreted PRO polypeptides, useful for screening of potential peptide or		PD	20-SEP-2001.
PT	small molecule inhibitors of the relevant receptor/ligand interactions		XX	
XX			XX	
XX	Claim 12; Fig 150; 773pp; English.		PF	28-FEB-2001; 2001WO-US06520.
PS			XX	
XX	AAA37022 to AAA37144 encode the new isolated human transmembrane,		PR	01-MAR-2000; 2000WO-US05601.
CC	receptor or secreted PRO polypeptides given in AA99340 to AA99462. The		PR	02-MAR-2000; 2000WO-US05841.
CC	transmembrane and receptor PRO proteins can be used for screening of		PR	03-MAR-2000; 2000US-187202P.
CC	potential peptide or small molecule inhibitors of the relevant		PR	06-MAR-2000; 2000US-186968P.
CC	receptor/ligand interactions. The polypeptides and nucleotide sequences		PR	14-MAR-2000; 2000US-189320P.
CC	encoding then have various industrial applications, including uses as		PR	14-MAR-2000; 2000US-189328P.
CC	pharmaceutical and diagnostic agents. AAA37145 to AAA37330 represent		PR	15-MAR-2000; 2000WO-US06884.
CC	PCR primers and hybridisation probes used in the isolation of the PRO		PR	21-MAR-2000; 2000US-190828P.
CC	polypeptides from the present invention.		PR	21-MAR-2000; 2000US-191007P.
XX			PR	21-MAR-2000; 2000US-191048P.
XX			PR	21-MAR-2000; 2000US-191314P.
XX			PR	21-MAR-2000; 2000US-192655P.
XX			PR	28-MAR-2000; 2000US-193032P.
XX			PR	29-MAR-2000; 2000US-193033P.
XX			PR	29-MAR-2000; 2000WO-US08439.
XX			PR	30-MAR-2000; 2000US-194449P.
XX			PR	04-APR-2000; 2000US-194647P.
QY	1 MYRPDVARKVCWEPWVIGLVIFISILVAVCIGLTVHVRYNQKTTYNYTSLSTTT 60		PR	11-APR-2000; 2000US-195975P.
Db	2 MYRPDVARKVCWEPWVIGLVIFISILVAVCIGLTVHVRYNQKTTYNYTSLSTTT 61		PR	11-APR-2000; 2000US-196000P.
QY	61 DKLYAEFGREASNNFTMSQRLSESMVKNAFYKSPRLREEFVKSQVIFKFSQKHGVLHMLL 120		PR	11-APR-2000; 2000US-196187P.
Db	62 DKLYAEFGREASNNFTMSQRLSESMVKNAFYKSPRLREEFVKSQVIFKFSQKHGVLHMLL 121		PR	11-APR-2000; 2000US-196690P.
QY	121 ICRFHSTEDPETVDKIVQLVLEKIQDVGPPKVDPHSVKIKKINKTETDTSYLNHCCGTR 180		PR	11-APR-2000; 2000US-196820P.
Db	122 ICRFHSTEDPETVDKIVQLVLEKIQDVGPPKVDPHSVKIKKINKTETDTSYLNHCCGTR 181		PR	18-APR-2000; 2000US-198121P.
QY	181 RSKTLQSLIRIVGGTEVEGEHPWQASLOWDGSACGATLINATWLVSAAHCFTTYKNPA 240		PR	25-APR-2000; 2000US-199397P.
Db	182 RSKTLQSLIRIVGGTEVEGEHPWQASLOWDGSACGATLINATWLVSAAHCFTTYKNPA 241		PR	25-APR-2000; 2000US-199550P.
QY	241 RWTASFGVTIKPSMKRGLRRIIVHEKYPKSHDHYDISLAELSSPVPTNAVHRYCLPDA 300		PR	25-APR-2000; 2000US-199654P.
Db	242 RWTASFGVTIKPSMKRGLRRIIVHEKYPKSHDHYDISLAELSSPVPTNAVHRYCLPDA 301		PR	17-MAY-2000; 2000WO-US13705.
QY	301 SYEFQPGDVMFVTGFGALKNDGYSQNHRLRQAQVTLIDATTCNEPAYNDATIPRILCAGS 360		PR	22-MAY-2000; 2000WO-US14042.
Db	302 SYEFQPGDVMFVTGFGALKNDGYSQNHRLRQAQVTLIDATTCNEPAYNDATIPRILCAGS 361		PR	30-MAY-2000; 2000WO-US14941.
QY	361 LEGKTDACOGDGGPLVSSDARDIYWLAGIVSWGDECAKPNKPGVYTRVTLARDWITSKT 420		PR	02-JUN-2000; 2000WO-US15264.
Db	362 LEGKTDACOGDGGPLVSSDARDIYWLAGIVSWGDECAKPNKPGVYTRVTLARDWITSKT 421		PR	05-JUN-2000; 2000US-209832P.
QY	421 GI 422		PR	28-JUL-2000; 2000WO-US20710.
Db	422 GI 423		PR	22-AUG-2000; 2000US-0644848.
XX			PR	24-AUG-2000; 2000WO-US23328.
XX			PR	08-NOV-2000; 2000WO-US30952.
XX			PR	01-DEC-2000; 2000WO-US32678.
XX			PR	20-DEC-2000; 2000WO-US34956.
XX			XX	(GETH ) GENENTECH INC.
XX			PA	Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX			PI	Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX			XX	WPI; 2001-602746/68.
XX			DR	N-PSDB; AAS46084.
XX			DR	
XX			XX	Novel nucleic acids encoding PRO polypeptides, used to diagnose the
XX			PT	presence of tumours, such as prostate and breast tumours, in mammals and
XX			PT	to screen for modulators of the compounds -
RESULT 4				



PN WO200121631-A2.  
XX 29-MAR-2001.  
XX  
XX 20-SEP-2000; 2000WO-US25982.  
PF  
XX 20-SEP-1999; 99US-0399723.  
XX  
XX (MILL-) MILLENNIUM PHARM INC.  
XX  
XX KIRST SJ, Sharp JD, Fraser CC, Barnes T, Kingsbury G;  
PI WPI; 2001-211461/21.  
XX N-PSDB; AAS02070.  
XX  
XX New nucleic acid encoding INTERCEPT 307, MANGO 511, TANGO 351, TANGO  
PT 361, TANGO 499 or TANGO 509 secreted or transmembrane protein, useful  
PT for the diagnosis and treatment of arthritis, psoriasis and Parkinson's  
PT disease -  
XX  
XX Claim 8; Fig 13; 362pp; English.  
XX  
XX The sequence represents the amino acid sequence of human TANGO 361  
CC transmembrane protein. The nucleic acid and polypeptide sequences  
CC are useful for the diagnosis, prognosis and treatment of immunological  
CC disorders (e.g. arthritis, graft rejection and acquired immunodeficiency  
CC syndrome), inflammatory disorders (e.g. psoriasis and asthma), renal  
CC disorders, embryonic disorders, brain-related disorders (e.g. cerebral  
CC oedema), cerebrovascular diseases (e.g. ischaemia), tumours, prostate-  
CC related disorders, pituitary-related disorders (e.g. Cushing's disease)  
CC and neurodegenerative diseases (e.g. Parkinson's disease).  
XX  
SQ Sequence 423 AA;  
  
Query Match 99.6%; Score 2255; DB 22; Length 423;  
Best Local Similarity 99.5%; Pred. No. 1.le-178;  
Matches 420; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
  
QY 1 MYRDPVVRARRVCWEPWVIGLVIFISILVAVICIGLTVHYVRNOKKTYNYSTLSFTT 60  
DB 2 MYRDPVVRARRVCWEPWVIGLVIFISILVAVICIGLTVHYVRNOKKTYNYSTLSFTT 61  
QY 61 DKLYAEFGREASNNFTMSORLESWKNVAFYKSPLEEFVKSQVVKFSQKHGVLAHMLL 120  
DB 62 DKLYAEFGREASNNFTMSORLESWKNVAFYKSPLEEFVKSQVVKFSQKHGVLAHMLL 121  
QY 121 ICRFHSTEDPETVKIVQLVLUHEKLDQAVGPPKVDPHSVKIKKINKTETDLYLNHCCGTR 180  
DB 122 ICRFHSTEDPETVKIVQLVLUHEKLDQAVGPPKVDPHSVKIKKINKTETDLYLNHCCGTR 181  
QY 181 RSKTLGQSLRIVGGTEVEGEPWQASLOWDGHACGATLINATWLVSAAHCFTTYKNPA 240  
DB 182 RSKTLGQSLRIVGGTEVEGEPWQASLOWDGHACGATLINATWLVSAAHCFTTYKNPA 241  
QY 241 RWTASFGVTIKPSKMKRLRRIIVHEKYKHPSHDYDISLAELSSPPVPTNAVHVRCLPDA 300  
DB 242 RWTASFGVTIKPSKMKRLRRIIVHEKYKHPSHDYDISLAELSSPPVPTNAVHVRCLPDA 301  
QY 301 SYEQPGDMVFTVFGALKNDGYQSNHLRQAQVTLIDATTCNEPQAYNDATIPRILCAGS 360  
DB 302 SYEQPGDMVFTVFGALKNDGYQSNHLRQAQVTLIDATTCNEPQAYNDATIPRILCAGS 361  
QY 361 LEGKTDACOGSGGPLVSSDARDIWLIVAGIIVSWGDECAKPNKPGVYTRVTRALRDWITSKT 420  
DB 362 LEGKTDACOGSGGPLVSSDARDIWLIVAGIIVSWGDECAKPNKPGVYTRVTRALRDWITSKT 421  
QY 421 GI 422  
DB 422 GI 423

RESULT 6  
AAB87578

ID AAB87578 standard; Protein; 423 AA.  
XX  
XX AAB87578;  
XX  
XX 15-MAY-2001 (first entry)  
XX  
XX Human PRO1461.  
XX  
XX Human; PRO protein; mapping.  
XX  
XX Homo sapiens.  
XX  
XX WO200116318-A2.  
XX  
XX 08-MAR-2001.  
XX  
XX 24-AUG-2000; 2000WO-US23328.  
XX  
XX 01-SEP-1999; 99WO-US20111.  
XX 15-SEP-1999; 99WO-US21090.  
XX 07-DEC-1999; 99US-0169495.  
XX 09-DEC-1999; 99US-0170262.  
XX 11-JAN-2000; 2000US-0175481.  
XX 18-FEB-2000; 2000WO-US04341.  
XX 18-FEB-2000; 2000WO-US04342.  
XX 22-FEB-2000; 2000WO-US04414.  
XX 01-MAR-2000; 2000WO-US05601.  
XX 03-MAR-2000; 2000US-0187202.  
XX 25-APR-2000; 2000US-0199397.  
XX 22-MAY-2000; 2000WO-US14042.  
XX 05-JUN-2000; 2000US-0209832.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
XX Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;  
XX Grimaldi CJ, Gurney AL, Watanabe CK, Wood WI;  
XX  
XX WPI: 2001-183260/18.  
XX N-PSDB; AAF92110.  
XX  
XX Eighty four nucleic acids encoding PRO polypeptides, useful in  
PT molecular biology, including use as hybridization probes, and in  
PT chromosome and gene mapping. -  
XX  
XX Claim 12; Fig 106; 278pp; English.  
XX  
XX The present sequence is a human PRO polypeptide (secreted and  
CC transmembrane). The PRO protein, and PRO agonists, PRO antagonists or  
CC anti-PRO antibodies are useful for preparation of a medicament useful in  
CC the treatment of a condition which is responsive to the PRO protein,  
CC agonists, antagonists or anti-PRO antibodies. The PRO protein may also be  
CC employed as molecular weight markers for protein electrophoresis. The PRO  
CC coding sequence has applications in molecular biology, including use as  
CC hybridisation probes, and in chromosome and gene mapping.  
XX  
SQ Sequence 423 AA;  
  
Query Match 99.6%; Score 2255; DB 22; Length 423;  
Best Local Similarity 99.5%; Pred. No. 1.le-178;  
Matches 420; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
  
QY 1 MYRDPVVRARRVCWEPWVIGLVIFISILVAVICIGLTVHYVRNOKKTYNYSTLSFTT 60  
DB 2 MYRDPVVRARRVCWEPWVIGLVIFISILVAVICIGLTVHYVRNOKKTYNYSTLSFTT 61  
QY 61 DKLYAEFGREASNNFTMSORLESWKNVAFYKSPLEEFVKSQVVKFSQKHGVLAHMLL 120  
DB 62 DKLYAEFGREASNNFTMSORLESWKNVAFYKSPLEEFVKSQVVKFSQKHGVLAHMLL 121  
QY 121 ICRFHSTEDPETVKIVQLVLUHEKLDQAVGPPKVDPHSVKIKKINKTETDLYLNHCCGTR 180  
DB 122 ICRFHSTEDPETVKIVQLVLUHEKLDQAVGPPKVDPHSVKIKKINKTETDLYLNHCCGTR 181

Qy 181 RSKTLGQSLRIVGGTEVEEGEPWQASLOWDGSACGATLINATWLVSAAHCFTTYKNPA 240  
 Db 182 RSKTLGQSLRIVGGTEVEEGEPWQASLOWDGSACGATLINATWLVSAAHCFTTYKNPA 241  
 Qy 241 RWTASFGVTIKPSMKRGLRRIIVHEKYKHPSHDYDISLAELSSPVPTNAVHRVCLPDA 300  
 Db 242 RWTASFGVTIKPSMKRGLRRIIVHEKYKHPSHDYDISLAELSSPVPTNAVHRVCLPDA 301  
 Qy 301 SYEFQPGDVMFTGFGALKNDGYSQNHRLRQAQVTLIDATTCNEPOAYNDATTPRILCAGS 360  
 Db 302 SYEFQPGDVMFTGFGALKNDGYSQNHRLRQAQVTLIDATTCNEPOAYNDATTPRILCAGS 361  
 Qy 361 LEGKTDACQSGDGLVSSDARDIWLGIYSWGDCAKPNKPGVYTRVLTALROWITSKT 420  
 Db 362 LEGKTDACQSGDGLVSSDARDIWLGIYSWGDCAKPNKPGVYTRVLTALROWITSKT 421  
 Qy 421 GI 422  
 Db 422 GI 423

RESULT 7  
 AAB66163  
 ID AAB66163 standard; protein; 423 AA.  
 XX AC AAB66163;  
 XX DT 02-APR-2001 (first entry)  
 XX DE Protein of the invention #75.  
 XX KW Secreted; transmembrane; gene therapy.  
 XX OS Unidentified.  
 XX PN WO200078961-A1.  
 XX PD 28-DEC-2000.  
 XX PF 18-FEB-2000; 2000WO-US04342.  
 XX PR 23-JUN-1999; 99US-0141037.  
 XX PR 20-JUL-1999; 99US-0144758.  
 XX PR 26-JUL-1999; 99US-0145698.  
 XX PR 01-SEP-1999; 99WO-US20111.  
 XX PR 29-OCT-1999; 99US-0162506.  
 XX PR 30-NOV-1999; 99WO-US28313.  
 XX PR 02-DEC-1999; 99WO-US28551.  
 XX PR 16-DEC-1999; 99WO-US30095.  
 XX PR 05-JAN-2000; 2000WO-US00219.  
 XX PR 06-JAN-2000; 2000WO-US00376.  
 XX PA (GETH ) GENENTECH INC.  
 XX PI Baker KP, Botstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S;  
 PI PI Gao W, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;  
 PI Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D;  
 PI Watanabe CK, Williams PM, Wood WI;  
 XX WPI; 2001-071395/08.  
 XX Secreted and transmembrane proteins and nucleic acids designated PRO,  
 PT useful as hybridization probes, in chromosome and gene mapping and gene  
 PT therapy -  
 XX Claim 1; Fig 150; 787pp; English.  
 XX The present invention relates to secreted and transmembrane proteins.  
 XX These proteins and the DNA encoding them may be used as hybridization  
 CC probes, in chromosome and gene mapping and in the generation of  
 CC anti-sense RNA and DNA. They may also be used to generate either  
 CC transgenic animals or knockout animals which are in turn useful for  
 CC development and screening of therapeutically useful reagents.

CC The nucleic acids may also be used in gene therapy.  
 XX SQ Sequence 423 AA;  
 Query Match 99.6%; Score 2255; DB 22; Length 423;  
 Best Local Similarity 99.5%; Pred. No. 1.le-178;  
 Matches 420; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 Qy 1 MYRDPVVRARRKVCWEPWVIGLVIFISLIVLAVICIGLTVHVRYNOKKTYNYSTLSFTT 60  
 Db 2 MYRDPVVRARRKVCWEPWVIGLVIFISLIVLAVICIGLTVHVRYNOKKTYNYSTLSFTT 61  
 Qy 61 DKLYAEFGREASNNFTMSQRLESQWKNVAFYKSPLEEFVKSQVIFKSQKHGVLAHML 120  
 Db 62 DKLYAEFGREASNNFTMSQRLESQWKNVAFYKSPLEEFVKSQVIFKSQKHGVLAHML 121  
 Qy 121 ICRFHSTEDPETVDKIIVQLVHLHEKLDQAVGPKVDPHSVKIKKINKTETDSYLNHCCGTR 180  
 Db 122 ICRFHSTEDPETVDKIIVQLVHLHEKLDQAVGPKVDPHSVKIKKINKTETDSYLNHCCGTR 181  
 Qy 181 RSKTLGQSLRIVGGTEVEEGEPWQASLOWDGSACGATLINATWLVSAAHCFTTYKNPA 240  
 Db 182 RSKTLGQSLRIVGGTEVEEGEPWQASLOWDGSACGATLINATWLVSAAHCFTTYKNPA 241  
 Qy 241 RWTASFGVTIKPSMKRGLRRIIVHEKYKHPSHDYDISLAELSSPVPTNAVHRVCLPDA 300  
 Db 242 RWTASFGVTIKPSMKRGLRRIIVHEKYKHPSHDYDISLAELSSPVPTNAVHRVCLPDA 301  
 Qy 301 SYEFQPGDVMFTGFGALKNDGYSQNHRLRQAQVTLIDATTCNEPOAYNDATTPRILCAGS 360  
 Db 302 SYEFQPGDVMFTGFGALKNDGYSQNHRLRQAQVTLIDATTCNEPOAYNDATTPRILCAGS 361  
 Qy 361 LEGKTDACQSGDGLVSSDARDIWLGIYSWGDCAKPNKPGVYTRVLTALROWITSKT 420  
 Db 362 LEGKTDACQSGDGLVSSDARDIWLGIYSWGDCAKPNKPGVYTRVLTALROWITSKT 421  
 Qy 421 GI 422  
 Db 422 GI 423

RESULT 8  
 AAU01400  
 ID AAU01400 standard; Protein; 423 AA.  
 XX AC AAU01400;  
 XX DT 18-JUL-2001 (first entry)  
 XX DE Human TANGO 361, variant #2 amino acid sequence.  
 XX KW Human; TANGO 361; transmembrane protein; diagnostic; asthma;  
 KW immunological disorder; arthritis; graft rejection; renal disorder;  
 KW acquired immunodeficiency syndrome; inflammatory disorders; psoriasis;  
 KW AIDS; embryonic disorder; brain; cerebral oedema; ischaemia; tumour;  
 KW prostate; cerebrovascular disease; pituitary; Cushing's disease;  
 KW neurodegenerative disease; Parkinson's disease.  
 XX OS Homo sapiens.  
 XX PN WO200121631-A2.  
 XX PD 29-MAR-2001.  
 XX PF 20-SEP-2000; 2000WO-US25982.  
 XX PR 20-SEP-1999; 99US-0399723.  
 XX PA (MILL-) MILLENNIUM PHARM INC.  
 XX PI KIRST SJ, Sharp JD, Fraser CC, Barnes T, Kingsbury G;  
 XX WPI; 2001-211461/21.

DR N-PSDB; AAS02111.  
XX New nucleic acid encoding INTERCEPT 307, MANGO 511, TANGO 351, TANGO  
PT 361, TANGO 499 or TANGO 509 secreted or transmembrane protein, useful  
PT for the diagnosis and treatment of arthritis, psoriasis and Parkinson's  
PT disease -  
XX  
XX  
PS Disclosure; Page 325-326; 362pp; English.  
XX  
CC The sequence represents the amino acid sequence of human TANGO 361  
CC variant #2 transmembrane protein. The nucleic acid and polypeptide  
CC sequences are useful for the diagnosis, prognosis and treatment of  
CC immunological disorders (e.g. arthritis, graft rejection and acquired  
CC immunodeficiency syndrome), inflammatory disorders (e.g. psoriasis and  
CC asthma), renal disorders, embryonic disorders, brain-related disorders  
CC (e.g. cerebral oedema), cerebrovascular diseases (e.g. ischaemia),  
CC tumours, prostate-related disorders, pituitary-related disorders (e.g.  
CC Cushing's disease) and neurodegenerative diseases (e.g. Parkinson's  
CC disease).  
XX  
SQ Sequence 423 AA;  
Query Match 99.5%; Score 2252; DB 22; Length 423;  
Best Local Similarity 99.3%; Pred. No. 2e-178;  
Matches 419; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MYRDPVVRARRKRCVCEPWVIGLVIFISLIVLAVICIGLTVHVRYNQKTYNYSTLSFTT 60  
DB 2 MYRDPVVRARRKRCVCEPWVIGLVIFISLIVLAVICIGLTVHVRYNQKTYNYSTLSFTT 61  
QY 61 DKLYAEFGREASNNFTMSQRLESWMVKNFYKSPLEEFVKSVQIKFSQOKHGVLAHMLL 120  
DB 62 DKLYAEFGREASNNFTMSQRLESWMVKNFYKSPLEEFVKSVQIKFSQOKHGVLAHMLL 121  
QY 121 ICRFHSTEDPETVDKIVOLVUHEKLDQAVGPPKVDPHSVKTKKINKTETDTSYLNHCCGTR 180  
DB 122 ICRFHSTEDPETVDKIVOLVUHEKLDQAVGPPKVDPHSVKTKKINKTETDTSYLNHCCGTR 181  
QY 181 RSKTLGOSLRIVGGTEVEEGEPWQASLOWDGSACGATLINATWLVSAAHCFTTYKNPA 240  
DB 182 RSKTLGOSLRIVGGTEVEEGEPWQASLOWDGSACGATLINATWLVSAAHCFTTYKNPA 241  
QY 241 RWTASFGVTIKPSKMKRLRRIIVHEKYKHPSHDYDLSLAELSSPVPTNAVHRCVCLPDA 300  
DB 242 RWTASFGVTIKPSKMKRLRRIIVHEKYKHPSHDYDLSLAELSSPVPTNAVHRCVCLPDA 301  
QY 301 SYEFQPGDVMEVTFGALKNDGYSONHLRQAQVTLIDATTCNEPOAYNDATTPRILCAGS 360  
DB 302 SYEFQPGDVMEVTFGALKNDGYSONHLRQAQVTLIDATTCNEPOAYNDATTPRILCAGS 361  
QY 361 LEGKTDACQDGGGGLVSSDARDIWLIVSWGDECAKPNKPGVYTRVLTALRDWITSKT 420  
DB 362 LEGKTDACQDGGGGLVSSDARDIWLIVSWGDECAKPNKPGVYTRVLTALRDWITSKT 421  
QY 421 GI 422  
DB 422 GI 423  
RESULT 9  
AAU01401  
ID AAU01401 standard; Protein; 423 AA.  
XX  
XX  
AC AAU01401;  
XX  
XX 18-JUL-2001 (first entry)  
XX  
XX Human TANGO 361, variant #3 amino acid sequence.  
XX  
XX Human; TANGO 361; transmembrane protein; diagnostic; asthma;  
KW immunological disorder; arthritis; graft rejection; renal disorder;  
KW acquired immunodeficiency syndrome; inflammatory disorders; psoriasis;  
KW AIDS; embryonic disorder; brain; cerebral oedema; ischaemia; tumour;

KW prostate; cerebrovascular disease; pituitary; Cushing's disease;  
KW neurodegenerative disease; Parkinson's disease.  
XX Homo sapiens.  
XX WO200121631-A2.  
XX  
XX 29-MAR-2001.  
XX  
XX 20-SEP-2000; 2000WO-US25982.  
XX  
XX 20-SEP-1999; 99US-0399723.  
XX  
XX (MILL-) MILLENNIUM PHARM INC.  
XX  
XX Kirst SJ, Sharp JD, Fraser CC, Barnes T, Kingsbury G;  
XX WPI; 2001-211461/21.  
XX DR N-PSDB; AAS02112.  
XX  
XX New nucleic acid encoding INTERCEPT 307, MANGO 511, TANGO 351, TANGO  
PT 361, TANGO 499 or TANGO 509 secreted or transmembrane protein, useful  
PT for the diagnosis and treatment of arthritis, psoriasis and Parkinson's  
PT disease -  
XX  
XX Disclosure; Page 329-331; 362pp; English.  
XX  
CC The sequence represents the amino acid sequence of human TANGO 361  
CC variant #3 transmembrane protein. The nucleic acid and polypeptide  
CC sequences are useful for the diagnosis, prognosis and treatment of  
CC immunological disorders (e.g. arthritis, graft rejection and acquired  
CC immunodeficiency syndrome), inflammatory disorders (e.g. psoriasis and  
CC asthma), renal disorders, embryonic disorders, brain-related disorders  
CC (e.g. cerebral oedema), cerebrovascular diseases (e.g. ischaemia),  
CC tumours, prostate-related disorders, pituitary-related disorders (e.g.  
CC Cushing's disease) and neurodegenerative diseases (e.g. Parkinson's  
CC disease).  
XX  
SQ Sequence 423 AA;  
Query Match 99.5%; Score 2252; DB 22; Length 423;  
Best Local Similarity 99.3%; Pred. No. 2e-178;  
Matches 419; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
QY 1 MYRDPVVRARRKRCVCEPWVIGLVIFISLIVLAVICIGLTVHVRYNQKTYNYSTLSFTT 60  
DB 2 MYRDPVVRARRKRCVCEPWVIGLVIFISLIVLAVICIGLTVHVRYNQKTYNYSTLSFTT 61  
QY 61 DKLYAEFGREASNNFTMSQRLESWMVKNFYKSPLEEFVKSVQIKFSQOKHGVLAHMLL 120  
DB 62 DKLYAEFGREASNNFTMSQRLESWMVKNFYKSPLEEFVKSVQIKFSQOKHGVLAHMLL 121  
QY 121 ICRFHSTEDPETVDKIVOLVUHEKLDQAVGPPKVDPHSVKTKKINKTETDTSYLNHCCGTR 180  
DB 122 ICRFHSTEDPETVDKIVOLVUHEKLDQAVGPPKVDPHSVKTKKINKTETDTSYLNHCCGTR 181  
QY 181 RSKTLGOSLRIVGGTEVEEGEPWQASLOWDGSACGATLINATWLVSAAHCFTTYKNPA 240  
DB 182 RSKTLGOSLRIVGGTEVEEGEPWQASLOWDGSACGATLINATWLVSAAHCFTTYKNPA 241  
QY 241 RWTASFGVTIKPSKMKRLRRIIVHEKYKHPSHDYDLSLAELSSPVPTNAVHRCVCLPDA 300  
DB 242 RWTASFGVTIKPSKMKRLRRIIVHEKYKHPSHDYDLSLAELSSPVPTNAVHRCVCLPDA 301  
QY 301 SYEFQPGDVMEVTFGALKNDGYSONHLRQAQVTLIDATTCNEPOAYNDATTPRILCAGS 360  
DB 302 SYEFQPGDVMEVTFGALKNDGYSONHLRQAQVTLIDATTCNEPOAYNDATTPRILCAGS 361  
QY 361 LEGKTDACQDGGGGLVSSDARDIWLIVSWGDECAKPNKPGVYTRVLTALRDWITSKT 420  
DB 362 LEGKTDACQDGGGGLVSSDARDIWLIVSWGDECAKPNKPGVYTRVLTALRDWITSKT 421  
QY 421 GI 422



```
Db 422 GI 423
||
RESULT 10
AAU01402
ID AAU01402 standard; Protein: 423 AA.
XX
AC AAU01402;
XX
DT 18-JUL-2001 (first entry)
XX
DE Human TANGO 361, variant #4 amino acid sequence.
XX
KW Human; TANGO 361; transmembrane protein; diagnostic; asthma;
KW immunological disorder; arthritis; graft rejection; renal disorder;
KW acquired immunodeficiency syndrome; inflammatory disorders; psoriasis;
KW AIDS; embryonic disorder; brain; cerebral oedema; ischaemia; tumour;
KW prostate; cerebrovascular disease; pituitary; Cushing's disease;
KW neurodegenerative disease; Parkinson's disease.
XX
OS Homo sapiens.
XX
PN WO200121631-A2.
XX
PD 29-MAR-2001.
XX
PF 20-SEP-2000; 2000WO-US25982.
XX
PR 20-SEP-1999; 99US-0399723.
XX
PA (MILL-) MILLENNIUM PHARM INC.
XX
PI Kirst SJ, Sharp JD, Fraser CC, Barnes T, Kingsbury G;
XX
DR WPI; 2001-211461/21.
XX
DR N-PSDB; AAS02113.
XX
PT New nucleic acid encoding INTERCEPT 307, MANGO 511, TANGO 351, TANGO
PT 361, TANGO 499 or TANGO 509 secreted or transmembrane protein, useful
PT for the diagnosis and treatment of arthritis, psoriasis and Parkinson's
PT disease -
XX
PS Disclosure; Page 334-335; 362pp; English.
XX
CC The sequence represents the amino acid sequence of human TANGO 361
CC variant #4 transmembrane protein. The nucleic acid and polypeptide
CC sequences are useful for the diagnosis, prognosis and treatment of
CC immunological disorders (e.g. arthritis, graft rejection and acquired
CC immunodeficiency syndrome), inflammatory disorders (e.g. psoriasis and
CC asthma), renal disorders, embryonic disorders, brain-related disorders
CC (e.g. cerebral oedema), cerebrovascular diseases (e.g. ischaemia),
CC tumours, prostate-related disorders, pituitary-related disorders (e.g.
CC Cushing's disease) and neurodegenerative diseases (e.g. Parkinson's
CC disease).
XX
SQ Sequence 423 AA;
Query Match 99.5%; Score 2252; DB 22; Length 423;
Best Local Similarity 99.3%; Pred. No. 2e-178;
Matches 419; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 1 MYRPDVRARKRVCEPWVIGLVIFISILVAVCIGLTVHYVRYNQKTTYNYSTLSFTT 60
|||||
Db 2 MYRPDVRARKRVCEPWVIGLVIFITLLVAVCIGLTVHYVRYNQKTTYNYSTLSFTT 61
|||||
QY 61 DKLYAEFGREASNFTENSQRLESVMKNFYKSPRLREFFVKSQVIFKSQKHGVLHMLL 120
|||||
Db 62 DKLYAEFGREASNFTENSQRLESVMKNFYKSPRLREFFVKSQVIFKSQKHGVLHMLL 121
|||||
QY 121 ICRFHSTEDPETVDKIVQLVHLKLODVGPPKVDPHSVKIKKINKTETDTSVLNHCCTGR 180
|||||
Db 122 ICRFHSTEDPETVDKIVQLVHLKLODVGPPKVDPHSVKIKKINKTETDTSVLNHCCTGR 181
|||||
```

XX	Sequence	423 AA;	
SQ	Query Match	99.5%; Score 2251; DB 22; Length 423;	
	Best Local Similarity	99.3%; Pred. No. 2.4e-178;	
	Matches 419; Conservative 1; Mismatches 2; Indels 0; Gaps 0;		
Qy	1 MYRPDVARARKVCWEPWVIGLVIFISLVLAVCIGLVHVYRQKKTNYNSTLSFTT	60	
Db			
	2 MYRPDVARARKVCWEPWVIGLVIFISLVLAVCIGLVHVYRQKKTNYNSTLSFTT	61	
Qy	61 DKLYAEFGREASNNFTMSQRLESVMKNFYKSPUREEFVKSQVIFKSQKHGVLAHMLL	120	
Db			
	62 DKLYAEFGREASNNFTMSQRLESVMKNFYKSPUREEFVKSQVIFKSQKHGVLAHMLL	121	
Qy	121 ICRFHSTEDPETVDKIVQLVLEKLDQAVGPPKVDPHSVKIKKINKTETDSYLNHCCGTR	180	
Db			
	122 ICRFHSTEDPETVDKIVQLVLEKLDQAVGPPKVDPHSVKIKKINKTETDSYLNHCCGTR	181	
Qy	181 RSKTLGQSLRIVGGTEVEEGEWPQASLQWDGSHACGATLINATWLVSAAHCFTTYKNPA	240	
Db			
	182 RSKTLGQSLRIVGGTEVEEGEWPQASLQWDGSHACGATLINATWLVSAAHCFTTYKNPA	241	
Qy	241 RWTASFGVTIKPSKMKRGLRRIIVHEKYKHPSHDYDISLAELSSPVPTNAVHRYCLPDA	300	
Db			
	242 RWTASFGVTIKPSKMKRGLRRIIVHEKYKHPSHDYDISLAELSSPVPTNAVHRYCLPDA	301	
Qy	301 SYEFQPGDVMTGFGALKNDGYSONHLRQAQVTLIDATTCNEPOAYNDATTPRILCAGS	360	
Db			
	302 SYEFQPGDVMTGFGALKNDGYSONHLRQAQVTLIDATTCNEPOAYNDATTPRILCAGS	361	
Qy	361 LEGKTDACQDGGSGGPLVSSDARDIWLAGIVSWGDECAKPNKPGVYTRVTLRDWITSKT	420	
Db			
	362 LEGKTDACQDGGSGGPLVSSDARDIWLAGIVSWGDECAKPNKPGVYTRVTLRDWITSKT	421	
Qy	421 GI 422		
Db			
	422 GI 423		
RESULT 12			
AA94709			
ID	AA94709 standard; Protein: 422 AA.		
AC	AA94709;		
XX	01-DEC-2000 (first entry)		
DE	Human DESCl protein variant #2.		
XX	Human; DESCl: squamous cell carcinoma; prostate cancer; head; neck;		
KW	diagnosis; chromosome 4q12-4q13.		
XX	Homo sapiens.		
XX	Key	Location/Qualifiers	
PH	Region	19..37	
FT	/note= "Hydrophobic transmembrane region"		
FT	Cleavage-site	190..191	
FT	Domain	191..422	
FT	/note= "Catalytic domain"		
XX	WO200050061-A1.		
XX	31-AUG-2000.		
XX	11-NOV-1999;	99WO-IB01818.	
XX	26-FEB-1999;	99US-0122747.	
XX	(OHIS ) UNIV OHIO STATE RES FOUND.		
XX	Lang JC;		
PI			

XX	WPI: 2000-572035/53.		
DR	N-PSDB: AAA28126.		
XX	Diagnosing squamous cell carcinoma or prostate cancer especially		
PT	squamous cell carcinomas of head and neck and tissues adjacent to such		
PT	tumor tissue comprises assaying for the expression of DESCl gene -		
XX	Claim 8; Fig 1B; 32pp; English.		
XX	This invention relates to a method for the diagnosis of squamous cell		
CC	carcinoma or prostate cancer, comprising assaying for the expression of		
CC	the DESCl gene in the tissue sample from a subject. The present sequence		
CC	represents the human DESCl protein variant 2. The human DESCl gene is		
CC	located on chromosome 4q12-4q13, and the DESCl protein has a predicted		
CC	molecular weight of 44kD. The DESCl gene is expressed in significant		
CC	levels in epithelial derived tissue of the head, neck, oral mucosa,		
CC	tonsils, prostate, testes and skin in healthy individuals. Tissue samples		
CC	from patients with squamous cell carcinoma (particularly of the head and		
CC	neck) do not express, or expresses at low levels the DESCl gene.		
CC	Expression of the DESCl gene is reduced or absent in prostate cancer.		
CC	The DESCl protein shows homology to serine protease family members. The		
CC	methods of the invention can be used to diagnose squamous cell carcinoma		
CC	or prostate cancer in a tissue sample of a subject. The DESCl cDNA is		
CC	useful for producing DESCl protein and for designing hybridization probes		
CC	for isolating and identifying cDNA clones and genomic clones encoding the		
CC	protein or its allelic forms.		
XX	Sequence 422 AA;		
SQ	Query Match	98.8%; Score 2235; DB 21; Length 422;	
	Best Local Similarity	98.8%; Pred. No. 5.2e-177;	
	Matches 417; Conservative 3; Mismatches 2; Indels 0; Gaps 0;		
Qy	1 MYRPDVARARKVCWEPWVIGLVIFISLVLAVCIGLVHVYRQKKTNYNSTLSFTT	60	
Db			
	1 MYRPDVARARKVCWEPWVIGLVIFISLVLAVCIGLVHVYRQKKTNYNSTLSFTT	60	
Qy	61 DKLYAEFGREASNNFTMSQRLESVMKNFYKSPUREEFVKSQVIFKSQKHGVLAHMLL	120	
Db			
	61 DKLYAEFGREASNNFTMSQRLESVMKNFYKSPUREEFVKSQVIFKSQKHGVLAHMLL	120	
Qy	121 ICRFHSTEDPETVDKIVQLVLEKLDQAVGPPKVDPHSVKIKKINKTETDSYLNHCCGTR	180	
Db			
	121 ICRFHSTEDPETVDKIVQLVLEKLDQAVGPPKVDPHSVKIKKINKTETDSYLNHCCGTR	180	
Qy	181 RSKTLGQSLRIVGGTEVEEGEWPQASLQWDGSHACGATLINATWLVSAAHCFTTYKNPA	240	
Db			
	181 RSKTLGQSLRIVGGTEVEEGEWPQASLQWDGSHACGATLINATWLVSAAHCFTTYKNPA	240	
Qy	241 RWTASFGVTIKPSKMKRGLRRIIVHEKYKHPSHDYDISLAELSSPVPTNAVHRYCLPDA	300	
Db			
	241 RWTASFGVTIKPSKMKRGLRRIIVHEKYKHPSHDYDISLAELSSPVPTNAVHRYCLPDA	300	
Qy	301 SYEFQPGDVMTGFGALKNDGYSONHLRQAQVTLIDATTCNEPOAYNDATTPRILCAGS	360	
Db			
	301 SYEFQPGDVMTGFGALKNDGYSONHLRQAQVTLIDATTCNEPOAYNDATTPRILCAGS	360	
Qy	361 LEGKTDACQDGGSGGPLVSSDARDIWLAGIVSWGDECAKPNKPGVYTRVTLRDWITSKT	420	
Db			
	361 LEGKTDACQDGGSGGPLVSSDARDIWLAGIVSWGDECAKPNKPGVYTRVTLRDWITSKT	420	
Qy	421 GI 422		
Db			
	421 GI 422		
RESULT 13			
AAE01946			
ID	AAE01946 standard; Protein: 422 AA.		
XX			
AC	AAE01946;		
XX			

DT 31-JUL-2001 (first entry)  
 DE Human endotheliase 1 protein.  
 XX  
 KW Human; endotheliase 1; protease domain; cytostatic; vulnary; wound;  
 KW neutropic; periodontitis; dermatological disorder; gene therapy; scar;  
 KW angiogenesis; cardiovascular disorder; psoriasis; neovascular disease;  
 KW chronic inflammatory disease; ocular disorder; circulatory disorder;  
 KW crest syndrome; atherosclerosis; haemangiomas; diabetes mellitus;  
 KW liver cirrhosis; osteoradionecrosis; systemic sclerosis; oesophageal;  
 KW inflammatory bowel disease; fracture; rheumatoid arthritis; retinopathy;  
 KW systemic vasculitis; scleroderma; neoplasm; ulcer; burn; DESCL gene.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 DE Misc-difference 24  
 FT /label= Unknown  
 FT /note= "Encoded by ATN"  
 FT Misc-difference 37  
 FT /label= Unknown  
 FT /note= "Encoded by NTC"  
 FT Misc-difference 393  
 FT /label= Unknown  
 FT /note= "Encoded by TNG"  
 FT Domain  
 FT 190..422  
 FT /label= Protease\_domain  
 XX  
 XX WO200136604-A2.  
 XX  
 XX 25-MAY-2001.  
 XX  
 XX 17-NOV-2000; 2000WO-US31803.  
 XX  
 XX 18-NOV-1999; 99US-0166391.  
 PR  
 PR 22-SEP-2000; 2000US-0234840.  
 XX  
 XX (CORV-) CORVAS INT INC.  
 PA  
 XX  
 XX Madison EL, Ong EO;  
 XX  
 XX WPI; 2001-336001/35.  
 DR  
 XX N-PSDB; AAD05812.  
 XX  
 PT New nucleic acid encoding a protein comprising endotheliase activity  
 PT useful in the prevention and treatment of e.g. vascular malformations,  
 PT cardiovascular disorders, and chronic inflammatory disease -  
 XX  
 PS Claim 4; Page 149-151; 152pp; English.  
 XX  
 CC The present sequence is human endotheliase 1 protein which is encoded by  
 CC DESCL gene. DESCL is used for the diagnosis of squamous cell carcinoma or  
 CC prostate cancer.  
 CC  
 CC The invention relates to an endotheliase protein, endotheliase protease  
 CC domain and their corresponding nucleic acid molecules. An endotheliase  
 CC protein or protease domain of it is useful for the treatment and  
 CC diagnosis of disorders associated with aberrant angiogenesis or undesired  
 CC neovascularisation. The undesired angiogenesis is associated with  
 CC disorders selected from solid neoplasm, vascular malformations and  
 CC cardiovascular disorders such as angiofibroma, angiolipoma,  
 CC atherosclerosis, restenosis/reperfusion injury, arteriovenous  
 CC malformations, haemangiomas and vascular adhesions, dyschondroplasia  
 CC with vascular hamartomas (Fafucci's syndrome), hereditary haemorrhagic  
 CC telangiectasia (Rendu-Osler-Weber syndrome) and Von Hippel Lindau  
 CC syndrome, chronic inflammatory diseases such as diabetes mellitus,  
 CC haemophilic joints, inflammatory bowel disease, nonhealing fractures,  
 CC periodontitis, psoriasis, rheumatoid arthritis, venous stasis ulcers,  
 CC granulations-burns, hypertrophic scars, liver cirrhosis,  
 CC osteoradionecrosis, postoperative adhesion, pyogenic granuloma and  
 CC systemic sclerosis and aberrant wound repairs, circulatory disorders  
 CC Raynaud's phenomenon, crest syndromes such as calcinosis, oesophageal,  
 CC dyomeolity, sclerodactyly and teangiectasis, dermatological disorders  
 CC such as systemic vasculitis, scleroderma, pyoderma gangrenosum,

CC vasculopathy, venous, arterial ulcers, Sturge-Weber syndrome, Port-wine  
 CC stains, blue rubber bleb nevus syndrome, Klippel-Trenaunay-Weber syndrome  
 CC and Osler-Weber-Rendu syndrome and ocular disorders such as blindness  
 CC caused by ocular neovascular disease, corneal graft neovascularisation,  
 CC macular degeneration, retinopathy of prematurity, retrolental  
 CC fibroplasia and corneal neovascularisation. The nucleic acids of the  
 CC invention are also used in gene therapy. The invention also provides  
 CC method for screening compounds that modulate angiogenesis.  
 XX  
 SQ Sequence 422 AA;  
 Query Match 98.6%; Score 2232; DB 22; Length 422;  
 Best Local Similarity 98.8%; Pred. No. 9.2e-177;  
 Matches 417; Conservative 1; Mismatches 4; Indels 0; Gaps 0;  
 QY 1 MYRDPVVRARKRVCWEPWVIGLVIFSLVLAVCGTGLTVHYVRYNOKKTYNYSTLSFTT 60  
 DB 1 MYRDPVVRARKRVCWEPWVIGLVIFSLVLAVCGTGLTVHYVRYNOKKTYNYSTLSFTT 60  
 QY 61 DKLYAFEGREASNNFTMSQRLESVMKNFYKSPLEEFVKSQVVKFSQOKHGVLAHMLL 120  
 DB 61 DKLYAFEGREASNNFTMSQRLESVMKNFYKSPLEEFVKSQVVKFSQOKHGVLAHMLL 120  
 QY 121 ICRFHSTEDPETVDKIVQLVLEKLDQAVGPPKVDPHSVKIKKINKTETDSTYLNHCCGTR 180  
 DB 121 ICRFHSTEDPETVDKIVQLVLEKLDQAVGPPKVDPHSVKIKKINKTETDSTYLNHCCGTR 180  
 QY 181 RSKTLGOSLRIVGGTEVEEGEPWQASLOWDGHGACGATLINATWLVSAAHCFITYKNPA 240  
 DB 181 RSKTLGOSLRIVGGTEVEEGEPWQASLOWDGHGACGATLINATWLVSAAHCFITYKNPA 240  
 QY 241 RWTASFGVTIKPSKMKRGLRRIIVHEKYPKSHDYDISLAELSSPPVPTNAVHRCVCLPDA 300  
 DB 241 RWTASFGVTIKPSKMKRGLRRIIVHEKYPKSHDYDISLAELSSPPVPTNAVHRCVCLPDA 300  
 QY 301 SYEFOPGDVMTGFGALKNDGYSONHLRQAQVTLIDATTCNEPOAYNDATIPRILCAGS 360  
 DB 301 SYEFOPGDVMTGFGALKNDGYSONHLRQAQVTLIDATTCNEPOAYNDATIPRILCAGS 360  
 QY 361 LEGKTDACOGSGGPLVSSDARDIWLIVAGISVSGDECAKPNKPGVYTRVYTRVYTRVYTRV 420  
 DB 361 LEGKTDACOGSGGPLVSSDARDIWLIVAGISVSGDECAKPNKPGVYTRVYTRVYTRVYTRV 420  
 QY 421 GI 422  
 DB 421 GI 422  
 RESULT 14  
 AAO21900  
 ID AAO21900 standard; Protein; 407 AA.  
 XX  
 AC AAO21900;  
 XX  
 DT 13-SEP-2002 (first entry)  
 XX  
 DE Homologous human protease protein.  
 XX  
 KW Human protease; transgenic animal; transgenic non-human animal; enzyme;  
 KW tissue typing.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200226947-A2.  
 PD 04-APR-2002.  
 XX  
 PF 26-SEP-2001; 2001WO-US29960.  
 XX  
 XX 27-SEP-2000; 2000US-235557P.  
 PR 13-DEC-2000; 2000US-0734675.  
 XX  
 PA (PEKE ) PE CORP NY.



QY 250 IKPSKMKRGLRRIIVHEKYKHPSHDYDISLAELSSPVYTNVHRVCLPDASYEFQPGDV 309  
Db 61 IKPSKMKRGLRRIIVHEKYKHPSHDYDISLAELSSPVYTNVHRVCLPDASYEFQPGDV 120  
QY 310 MFVTGFGALKNDGYSONHLRQAQVTLIDATTCNEPOAYNDATPRILCAGSLEGKTDACQ 369  
Db 121 MFVTGFGALKNDGYSONHLRQAQVTLIDATTCNEPOAYNDATPRMLCAGSLEGKTDACQ 180  
QY 370 GDSGGPLVSSDARDIWLAGIVSWGDECAKPNKPGVYTRVTALRDWITSKGTGI 422  
Db 181 GDSGGPLVSSDARDIWLAGIVSWGDECAKPNKPGVYTRVTALRDWITSKGTGI 233

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